PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PC32600A	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No. PCT/IB2006/000876	International filing date (day/month/year) 06.03.2006	Priority date (day/month/year) 17.03.2005				
International Patent Classification (IPC) or national classification and IPC INV. C07D405/06						
Applicant PFIZER, INC.						
	iminary examination report, established by smitted to the applicant according to Article					
2. This REPORT consists of a total of	f 6 sheets, including this cover sheet.					
3. This report is also accompanied by	y ANNEXES, comprising:					
a. \square sent to the applicant and to	the International Bureau) a total of sheet	s, as follows:				
and/or sheets containir	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
☐ sheets which supersed beyond the disclosure Supplemental Box:	le earlier sheets, but which this Authority co in the international application as filed, as in	nsiders contain an amendment that goes ndicated in Item 4 of Box No. I and the				
sequence listing and/or tab	ureau only) a total of (indicate type and nun les related thereto, in electronic form only, and (see Section 802 of the Administrative In					
This report contains indications rel	ating to the following items:					
☑ Box No. I Basis of the repo	ort					
☐ Box No. II Priority						
	ent of opinion with regard to novelty, inventi	ve step and industrial applicability				
☐ Box No. IV Lack of unity of i	•					
	nent under Article 35(2) with regard to nove tions and explanations supporting such sta					
☐ Box No. VI Certain documer	nts cited	·				
	n the international application					
☑ Box No. VIII Certain observat	ions on the international application					
Date of submission of the demand	Date of completion of	this report				
06.06.2006	13.02.2007					
Name and mailing address of the international preliminary examining authority:						
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 52365	Diederen, Jeroer					
Fax: +49 89 2399 - 4465	Telephone No. +49 8	9 2399-				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2006/000876

-	Во	x No. I Basis of the report
1.	Wit	h regard to the language, this report is based on
	\boxtimes	the international application in the language in which it was filed
		a translation of the international application into, which is the language of a translation furnished for the purposes of: international search (under Rules 12.3(a) and 23.1(b)) publication of the international application (under Rule 12.4(a)) international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
have been		h regard to the elements* of the international application, this report is based on <i>(replacement sheets which</i> been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this ort as "originally filed" and are not annexed to this report):
	Des	cription, Pages
	1-45	
	Clai	ms, Numbers
	1-15	as originally filed
	Dra	wings, Sheets
	1-4	as originally filed
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3.		The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify):
4.	□ had Sup	This report has been established as if (some of) the amendments annexed to this report and listed below not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the plemental Box (Rule 70.2(c)). I the description, pages I the claims, Nos. I the drawings, sheets/figs I the sequence listing (specify): I any table(s) related to sequence listing (specify):
	*	If item 4 applies, some or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2006/000876

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
1.	The	ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- ovious), or to be industrially applicable have not been examined in respect of:		
		the entire international application,		
	☒	claims Nos. 11-14		
	because:			
	☒	the said international application, or the said claims Nos. 11-14 (with respect to industrial application) relate to the following subject matter which does not require an international preliminary examination (specify):		
		see separate sheet		
		the description, claims or drawings (Indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):		
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify).		
		no international search report has been established for the said claims Nos.		
		a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:		
		furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.		
		☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Preliminary Examining Authority in a form and manner acceptable to it.		
		pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b) and 13ter.2.		
		a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Preliminary Examining Authority in a form and manner acceptable to it.		
		the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.		
		See separate sheet for further details		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2006/000876

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1,2,4,5,7-15

No:

Claims

3,6

Inventive step (IS)

Yes: Claims

1,2,4,5,7-15

No:

Claims

3,6

Industrial applicability (IA)

Yes: Claims

1-10,15

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

PCT/IB2006/000876

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 11-14 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: WO 90/05133 A (PFIZER LIMITED; PFIZER INC) 17 May 1990 (1990-05-17)

D2: WO 03/030898 A (MERCK & CO., INC; KIM, RONALD, M; CHANG, JIANG;

CHAPMAN, KEVIN, T; MIL) 17 April 2003 (2003-04-17)

Document D1 discloses in examples 1-13 and 23 compounds which are novelty destroying for claim 6 of the present application. Examples 14-21 show examples which are novelty destroying for claim 3. Claims 3 and 6 are therefore not novel with respect to Article 33(2) PCT and can therefore also not be considered inventive according to Article 33(3) PCT.

Document D2 discloses piperidine comprising compounds for use in the treatment of HIV. This disclosure is considered to represent the closest prior art. The difference of the compounds of document D2 is enormous. The problem to be solved by the applicant was to provide alternative compounds for the treatment of HIV. Starting from document D2, a skilled person would not come to the solution of the present application as he would have to change the compounds of D2 completely. He would not have an incentive in the prior art to do so. It is therefore considered that the subject-matter of the present application, in as far it comprises novel subject-matter (claims 1,2,4,5,7-15), is inventive with respect to Article 33(3) PCT.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/IB2006/000876

Re Item VIII

Certain observations on the international application

In the present set of claims, definitions for e.g. alkyl are given in the description which are not common to a person skilled in the art. Alkyl can mean a cyclic structure for example. This renders the scope of the entire application unclear for a person skilled in the art.

Claim 2 refers to an embodiment wherein a radical R3 is mentioned. There is however no definition given for said R3. This renders the scope of claim 2 unclear.